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PCT

REC'D 22 JAN 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference See Notification of Transmittal of International								
BUR920020012	FOR FURTHER ACTION Preliminary Ex		xamination Report (Form PCT/IPEA/416)					
International application No.	International filing date (day/mo	nth/year)	Priority date (day/month/year)					
PCT/US02/40868	19 December 2002 (19.12.2002))						
International Patent Classification (IPC)	International Patent Classification (IPC) or national classification and IPC							
IPC(7): H01L 21/00, 21/44, 21/84, 21/8238, 29/00, 29/94 and US CI.: 438/151, 217, 231, 232, 283, 574, 576, 578, 582; 257/332, 401, 607, 611, 618, 620, 623								
Applicant								
INTERNATIONAL BUSINESS MACH	IINES CORPORATION		· · · · · · · · · · · · · · · · · · ·					
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This REPORT consists of	2. This REPORT consists of a total of $\underline{\mathcal{D}}$ sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
These annexes consist of a total ofsheets.								
3. This report contains indications relating to the following items:								
I Basis of the report								
II Priority	II Priority							
III Non-establishr	nent of report with regard to no	ovelty, inventiv	e step and industrial applicability					
IV Lack of unity	of invention							
V Reasoned state								
VI Certain docum								
	s in the international application	n						
			· .					
VIII Certain observ	vations on the international app	ncanon						
Date of submission of the demand	Da	te of completion	n of this report					
14 August 2003 (14.08.2003)		October 2003 (0°						
Name and mailing address of the IPEA/US Mail Stop PCT, Atm: IPEA/US		thorized officer	Sharm S. App					
Commissioner for Patents P.O. Box 1450		atthew Smith	sparm o . I v /7					
Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230		lephone No. 703						
Form PCT/IPEA/409 (cover sheet)(July 1998)								



International a	tion No.	
PCT/US02/40868		
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ī.	Basis	of the report
		regard to the elements of the international application:*
		the international application as originally filed.
	\boxtimes	the description:
		pages 1-10 as originally filed
		pages NONE , filed with the demand pages NONE , filed with the letter of
	\boxtimes	the claims: pages 11-16 , as originally filed
		pages 11-16 , as originally filed pages NONE , as amended (together with any statement) under Article 19
		pages NONE filed with the demand
		pages NONE , filed with the letter of
	\boxtimes	the drawings:
		pages 1-12 , as originally filed
		pages NONE , filed with the demand
		pages NONE , filed with the letter of
		the sequence listing part of the description:
		pages NONE, as originally filed pages NONE, filed with the demand
		pages NONE , filed with the letter of
2	lang	h regard to the language, all the elements marked above were available or furnished to this Authority in the mage in which the international application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language which is:
	The	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	<u> </u>	the language of publication of the international application (under Rule 48.3(b)).
	닏	the language of publication of the international application (under Rule 40.5(0)).
	L	the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).
3	3. Wit	th regard to any nucleotide and/or amino acid sequence disclosed in the international application, the reactional preliminary examination was carried out on the basis of the sequence listing:
ļ		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
	4. 🗵	The amendments have resulted in the cancellation of:
		the description, pages NONE
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
	_ [
	5	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
	thic ro	degoing the disclosure as filed, as indicated in the opposition of the response to an invitation under Article 14 are referred to in port as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). The properties of the pro
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ation No. International PCT/US02/40808

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applications and explanations supporting such statement					
1.	STATEMENT				
	Novelty (N)	Claims	1-24	YES	
		Claims	NONE	NO	
	Inventive Step (IS)	Claims	1-24	YES	
	mvenuve step (15)	Claims		NO	
	- 4	Claima	1.24	YES	
	Industrial Applicability (IA)	Claims Claims		NO	

2. CITATIONS AND EXPLANATIONS

Claims 1-24 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest an integrated circuit comprising a semiconductor layer that forms the source, drain and channel of a first gate region and the gate structure of a second gate region.

Form PCT/IPEA/409 (Box V) (July 1998)